DELTA PACIFIC VALVE

API 594 Dual Plate Check Valves

Delta Pacific Valve Mfg. Co.

New York, U.S.A.

TABLE OF CONTENTS

HOW TO ORDER

W	72	
Body Type	**Pressure Rating**	**End Connections**
DF = Double Flanged	71 = ANSI Class 125	*Blank* = for Raised Face Flanges
L = Lug	72 = ANSI Class 150	R = for Ring Type Joint Flanges
W = Wafer	74 = ANSI Class 300	X = Special;
	76 = ANSI Class 600	Per Customer's Specifications
	77 = ANSI Class 900	
	78 = ANSI Class 1500	
	79 = ANSI Class 2500	

The above example, namely DPV® Fig. W72, shows an ANSI Class 150 Dual Plate Wafer Check Valve for Installation between ANSI Class 150 Raised Face Flanges.

COMPANY INTRODUCTION

Delta Pacific Valve Manufacturing Company

Consistent product quality and availability of substantial stock makes **DPV®** a dependable choice for API 594 dual plate check valves where total reliability is of the utmost concern.

DPV® manufactures valves to industry and international standard specifications, or to customer specified requirements, both promptly and economically.

DPV® maintains an extensive quality system which complies with the requirements of major oil companies, industry standards and to the ISO 9000 Standard.

DPV® check valves are manufactured in compliance with the requirements of API 594 and pressure tested in accordance with API 594 (or API 598) standard.

Materials of construction include the ASTM A216 and ASTM A352 range of carbon steels, the ASTM A217 range of alloy steels, and the ASTM A351 and ASTM A890 range of corrosion-resistant steels; the pressure containing components being of high integrity castings.

Environmentally Friendly Valves

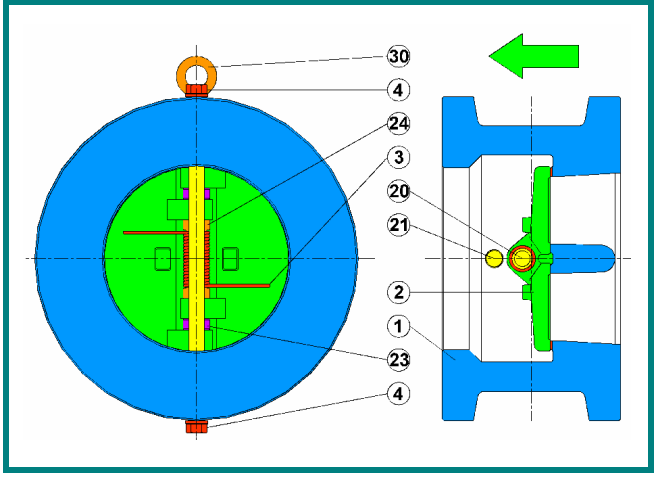
In concert with customers' continual efforts to both reduce the cost of ownership and comply with local environmental requirements, **DPV®** check valves incorporate soft plug gaskets as standard for zero leakage from the valve body openings.

CHECK VALVE DESIGN FEATURES

- Dual Plate Design Minimizes Valve Cracking Pressure and Reduces Valve Pressure Drop
- Spring Loading on Plates Assists Valve Closing to Ensure Tight Seal and Minimize Slamming
- Pin Retaining Plugs Fitted with Graphite Gaskets for Firesafe and Leak-Free Seal
- Metal-to-Metal Seating Standard
- Resilient Seat Materials Available Upon Request

- Design : API 594
- Body Wall Thickness : API 594
- Face-to-Face : API 594
- Testing : API 598
- For Fitting Flanges to : ASME B16.5
  ASME B16.47 Series A
  MSS SP-44
- Drain Connections Available Upon Request

Typical Construction



No.	Part Name
1	Body
2	Plate
3	Spring
4	Pipe Plug
20	Hinge Pin
21	Stop Pin
22	Body-Lug Bearing
23	Plate-Lug Bearing
24	Spring Retainer
25	Gasket (for Pipe Plug)
30	Eyebolt
31	Nameplate

Note: Lug and Double Flanged available upon request.

Cracking Pressure (psi)

Valve Size	Installation Orientation	
	Horizontal Pipeline	Vertical Pipeline
	Valve Hinge Pin Perpendicular to Ground Valve Plates Open Sideways	Valve Hinge Pin Parallel to Ground Valve Plates Open Upwards
2" to 14"	0.15	0.30
16" to 24"	0.15	0.45
30" to 48"	0.15	0.60

STANDARD MATERIALS OF CONSTRUCTION

Part	ASME B16.34 Material Group					
	Carbon Steel	Impact Tested Carbon Steel				
	1.1	1.2		1.3		
Body	A216 Gr. WCB	A352 Grade LCC		A352 Grade LCB		
Pipe Plug	A105	A350 Grade LF2				
Spring	← ASTM B637 UNS N07750 →					
Gasket	← Flexible Graphite →					
Eyebolt	← Forged Steel →					
Part	**Corrosion-Resistant Steel**					
	ASME B16.34 Material Group				**Duplex**	
	2.1		**2.2**		**UNS J92205**	
Body	A351 Gr. CF8	A351 Gr. CF3	A351 Gr. CF8M	A351 Gr. CF3M	A890 Gr. 4A	
Pipe Plug	A182 Gr. F304	A182 Gr. F304L	A182 Gr. F316	A182 Gr. F316L	A182 Gr. F51	
Spring	← ASTM B637 UNS N07750 →					
Gasket	← Flexible Graphite →					
Eyebolt	← Forged Steel →					

Note: Forged carbon steel ASTM A105 may be substituted in lieu of cast carbon steel ASTM A216 grade WCB at DPV®'s option.

Other materials available upon request.

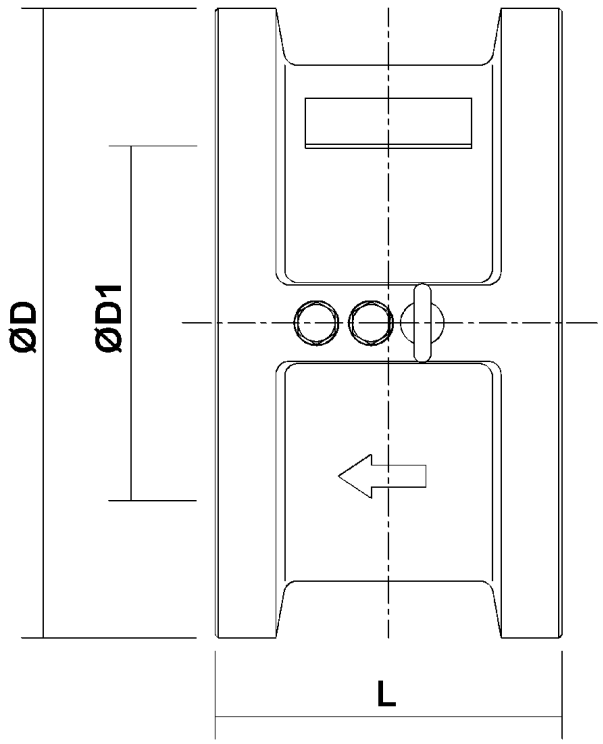
Trim Materials										
Part	API 594 Trim No.									
	1	2	5	8	9	10	12	13	14	AA
Body Seating Surfaces	13Cr	304	HF	13Cr	Ni-Cu	316	HF	Alloy 20	HF	Bronze
Plate	13Cr	304	HF	HF	Ni-Cu	316	HF	Alloy 20	HF	Bronze
Hinge Pin	13Cr	304	13Cr	13Cr	Ni-Cu	316	316	Alloy 20	Alloy 20	Bronze
Stop Pin	13Cr	304	13Cr	13Cr	Ni-Cu	316	316	Alloy 20	Alloy 20	Bronze
Body-Lug Bearing	13Cr	304	13Cr	13Cr	Ni-Cu	316	316	Alloy 20	Alloy 20	Bronze
Plate-Lug Bearing	13Cr	304	13Cr	13Cr	Ni-Cu	316	316	Alloy 20	Alloy 20	Bronze
Spring Retainer	13Cr	304	13Cr	13Cr	Ni-Cu	316	316	Alloy 20	Alloy 20	Bronze
Part	DPV® Trim No.									
	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK
Body Seating Surfaces	HF	HF	HF	HF	HF	HF	HF	NBR	EPDM	FKM
Plate	CF8	CF8	HF	CF8M	HF	A890 4A	HF	CF8	CF8	CF8M
Hinge Pin	13Cr	304	304	316	Ni-Cu	F51	F51	304	304	316
Stop Pin	13Cr	304	304	316	Ni-Cu	F51	F51	304	304	316
Body-Lug Bearing	13Cr	304	304	316	Ni-Cu	F51	F51	304	304	316
Plate-Lug Bearing	13Cr	304	304	316	Ni-Cu	F51	F51	304	304	316
Spring Retainer	13Cr	304	304	316	Ni-Cu	F51	F51	304	304	316

Note: Metal body seating surfaces will be supplied as a weld overlay.

Resilient body seating materials will be located in body and bonded to the body seat area.

ANSI CLASS 150

Installation Dimensions



DPV® Figure Number

W72

Body Material	Maximum Working Pressure	
WCB	285 psig	@ -20 to 100 °F
LCB	265 psig	@ -50 to 100 °F
LCC	290 psig	@ -50 to 100 °F
CF3	275 psig	@ -50 to 100 °F
CF3M	275 psig	@ -50 to 100 °F
CF8	275 psig	@ -50 to 100 °F
CF8M	275 psig	@ -50 to 100 °F
Duplex	290 psig	@ -50 to 100 °F

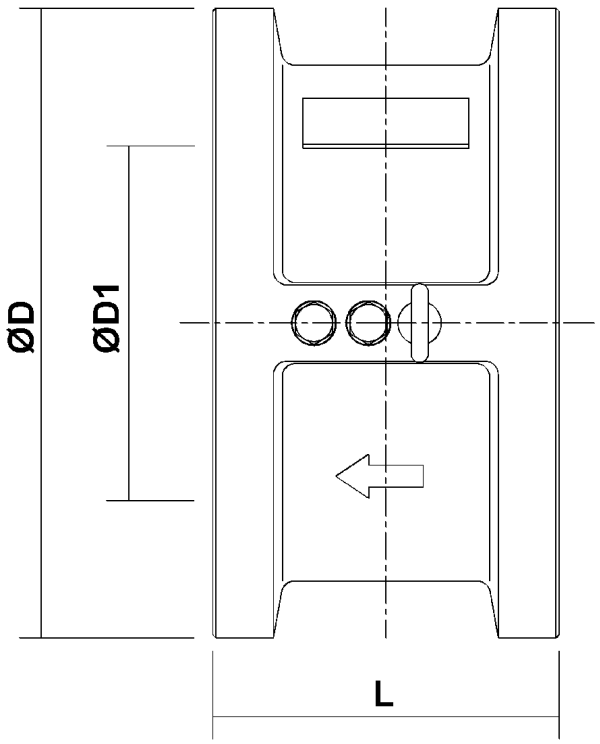
Spring Material	Maximum Working Temperature
UNS S31600	250 °F
UNS N06625	600 °F
UNS N07750	1,000 °F

Nominal Size		L Face-to-Face		ØD Outside Ø		ØD1 Outlet Inside Ø		Cv	Weight	
(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lb.)	(kg.)
2	50	2 3/8	60	4	102	2 3/16	56	70	4	2
2 1/2	65	2 5/8	67	4 3/4	121	2 7/8	73	120	7	3
3	80	2 7/8	73	5 1/4	133	3 7/16	87	190	9	4
4	100	2 7/8	73	6 3/4	171	4 1/4	108	340	13	6
6	150	3 7/8	98	8 5/8	219	6 5/16	160	870	31	14
8	200	5	127	10 7/8	276	8 1/4	210	1650	53	24
10	250	5 3/4	146	13 1/4	337	10 1/2	267	2700	86	39
12	300	7 1/8	181	16	406	12 3/16	310	4300	119	54
14	350	7 1/4	184	17 5/8	448	14	356	5950	176	80
16	400	7 1/2	191	20 1/8	511	15 15/16	405	8250	258	117
18	450	8	203	21 1/2	546	17 15/16	456	10400	304	138
20	500	8 5/8	219	23 3/4	603	19 7/8	505	12900	359	163
24	600	8 3/4	222	28 1/8	714	23 13/16	605	19900	730	331

API 594 DUAL PLATE CHECK VALVES

ANSI CLASS 300

Installation Dimensions



DPV® Figure Number

W74

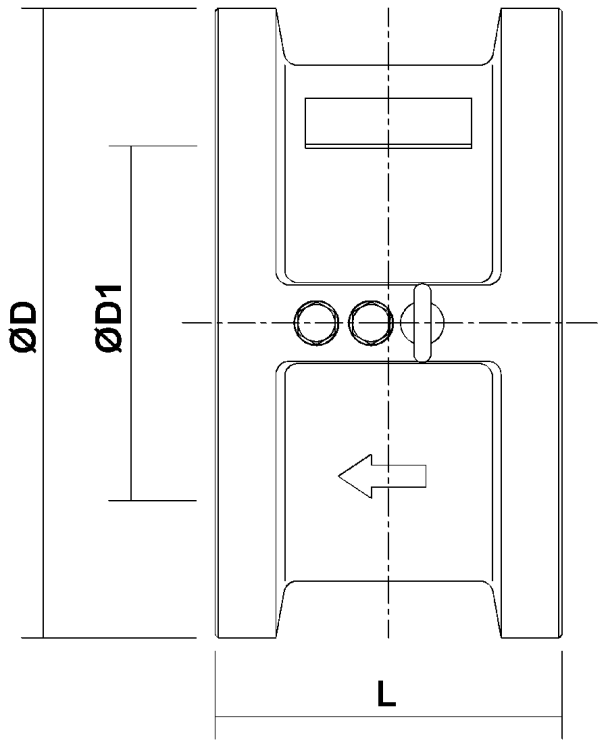
Body Material	Maximum Working Pressure	
WCB	740 psig	@ -20 to 100 °F
LCB	695 psig	@ -50 to 100 °F
LCC	750 psig	@ -50 to 100 °F
CF3	720 psig	@ -50 to 100 °F
CF3M	720 psig	@ -50 to 100 °F
CF8	720 psig	@ -50 to 100 °F
CF8M	720 psig	@ -50 to 100 °F
Duplex	750 psig	@ -50 to 100 °F

Spring Material	Maximum Working Temperature
UNS S31600	250 °F
UNS N06625	600 °F
UNS N07750	1,000 °F

Nominal Size		L Face-to-Face		ØD Outside Ø		ØD1 Outlet Inside Ø		Cv	Weight	
(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lb.)	(kg.)
2	50	2 3/8	60	4 1/4	108	2 5/16	59	70	7	3
2 1/2	65	2 5/8	67	5	127	2 7/8	73	120	9	4
3	80	2 7/8	73	5 3/4	146	3 7/16	87	190	13	6
4	100	2 7/8	73	7	178	4 1/4	108	340	18	8
6	150	3 7/8	98	9 3/4	248	6 5/16	160	870	40	18
8	200	5	127	12	305	8 1/4	210	1650	68	31
10	250	5 3/4	146	14 1/8	359	10 1/2	267	2700	112	51
12	300	7 1/8	181	16 1/2	419	12 3/16	310	4300	170	77
14	350	8 3/4	222	19	483	14	356	5950	258	117
16	400	9 1/8	232	21 1/8	537	15 15/16	405	8250	419	190
18	450	10 3/8	264	23 3/8	594	17 15/16	456	10400	441	200
20	500	11 1/2	292	25 5/8	651	19 7/8	505	12900	584	265
24	600	12 1/2	318	30 3/8	772	23 15/16	608	19900	904	410

ANSI CLASS 600

Installation Dimensions



DPV® Figure Number

W76

Body Material	Maximum Working Pressure	
WCB	1,480 psig	@ -20 to 100 °F
LCB	1,395 psig	@ -50 to 100 °F
LCC	1,500 psig	@ -50 to 100 °F
CF3	1,440 psig	@ -50 to 100 °F
CF3M	1,440 psig	@ -50 to 100 °F
CF8	1,440 psig	@ -50 to 100 °F
CF8M	1,440 psig	@ -50 to 100 °F
Duplex	1,500 psig	@ -50 to 100 °F

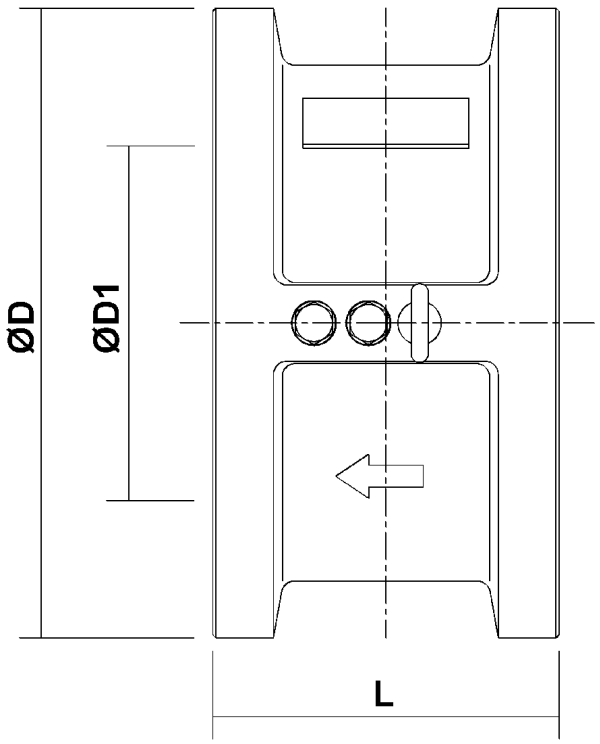
Spring Material	Maximum Working Temperature
UNS S31600	250 °F
UNS N06625	600 °F
UNS N07750	1,000 °F

Nominal Size		L Face-to-Face		ØD Outside Ø		ØD1 Outlet Inside Ø		Cv	Weight	
(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lb.)	(kg.)
2	50	2 3/8	60	4 1/4	108	2 5/16	59	70	9	4
2 1/2	65	2 5/8	67	5	127	2 7/8	73	120	11	5
3	80	2 7/8	73	5 3/4	146	3 7/16	87	190	18	8
4	100	3 1/8	79	7 1/2	191	4 1/4	108	340	24	11
6	150	5 3/8	137	10 3/8	264	6 3/8	162	870	57	26
8	200	6 1/2	165	12 1/2	318	8 3/8	213	1650	121	55
10	250	8 3/8	213	15 5/8	397	10 1/2	267	2600	209	95
12	300	9	229	17 7/8	454	12 5/16	313	4300	309	140
14	350	10 3/4	273	19 1/4	489	14	356	5500	492	223
16	400	12	305	22 1/8	562	15 3/4	400	7750	794	360
18	450	14 1/4	362	24	610	17 11/16	449	9900	871	395
20	500	14 1/2	368	26 3/4	679	19 11/16	500	12300	1,142	518
24	600	17 1/4	438	31	787	23 5/8	600	19300	1,843	836

API 594 DUAL PLATE CHECK VALVES

ANSI CLASS 900

Installation Dimensions



DPV® Figure Number

W77

Body Material	Maximum Working Pressure	
WCB	2,220 psig	@ -20 to 100 °F
LCB	2,090 psig	@ -50 to 100 °F
LCC	2,250 psig	@ -50 to 100 °F
CF3	2,160 psig	@ -50 to 100 °F
CF3M	2,160 psig	@ -50 to 100 °F
CF8	2,160 psig	@ -50 to 100 °F
CF8M	2,160 psig	@ -50 to 100 °F
Duplex	2,250 psig	@ -50 to 100 °F

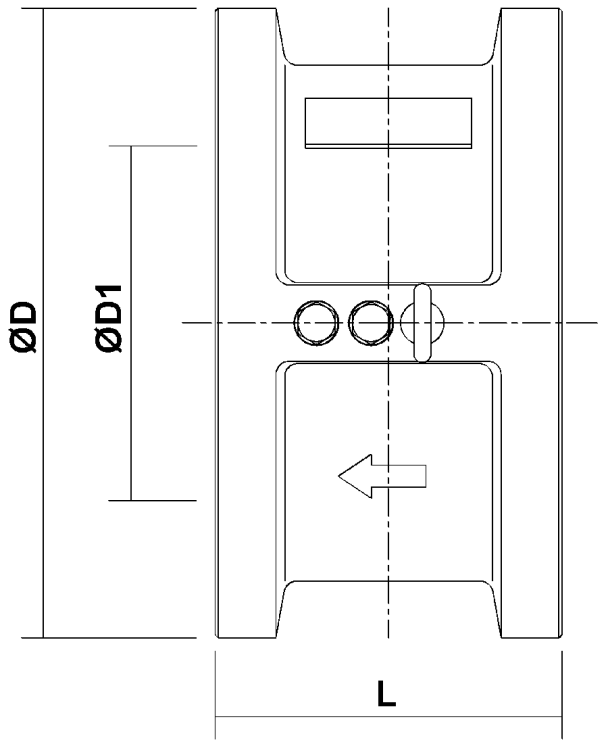
Spring Material	Maximum Working Temperature
UNS S31600	250 °F
UNS N06625	600 °F
UNS N07750	1,000 °F

Nominal Size		L Face-to-Face		ØD Outside Ø		ØD1 Outlet Inside Ø		Cv	Weight	
(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lb.)	(kg.)
2	50	2 3/4	70	5 1/2	140	2 5/16	59	70	18	8
2 1/2	65	3 1/4	83	6 3/8	162	2 7/8	73	120	24	11
3	80	3 1/4	83	6 1/2	165	3 9/16	90	190	31	14
4	100	4	102	8	203	4 1/4	108	340	44	20
6	150	6 1/4	159	11 1/4	286	6 3/8	162	850	93	42
8	200	8 1/8	206	14	356	8 3/8	213	1600	185	84
10	250	9 1/2	241	17	432	10 1/2	267	2600	320	145
12	300	11 1/2	292	19 1/2	495	12 5/16	313	4300	485	220
14	350	14	356	20 3/8	518	14	356	5500	772	350
16	400	15 1/8	384	22 3/4	578	15 3/4	400	7750	1,036	470
18	450	17 3/4	451	25	635	17 11/16	449	9900	1,334	605
20	500	17 3/4	451	27 3/8	695	19 1/2	495	12200	1,808	820
24	600	19 1/2	495	32 7/8	835	23 5/8	600	19300	2,315	1,050

API 594 DUAL PLATE CHECK VALVES

ANSI CLASS 1500

Installation Dimensions



DPV® Figure Number

W78

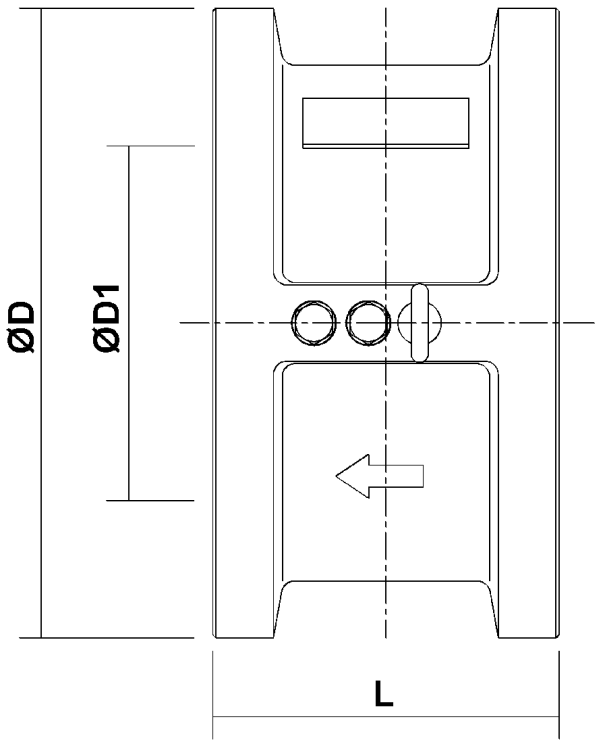
Body Material	Maximum Working Pressure	
WCB	3,705 psig	@ -20 to 100 °F
LCB	3,480 psig	@ -50 to 100 °F
LCC	3,750 psig	@ -50 to 100 °F
CF3	3,600 psig	@ -50 to 100 °F
CF3M	3,600 psig	@ -50 to 100 °F
CF8	3,600 psig	@ -50 to 100 °F
CF8M	3,600 psig	@ -50 to 100 °F
Duplex	3,750 psig	@ -50 to 100 °F

Spring Material	Maximum Working Temperature
UNS S31600	250 °F
UNS N06625	600 °F
UNS N07750	1,000 °F

Nominal Size		L Face-to-Face		ØD Outside Ø		ØD1 Outlet Inside Ø		Cv	Weight	
(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lb.)	(kg.)
2	50	2 3/4	70	5 1/2	140	2 5/16	59	70	18	8
2 1/2	65	3 1/4	83	6 3/8	162	2 7/8	73	120	24	11
3	80	3 1/4	83	6 3/4	171	3 9/16	90	190	42	19
4	100	4	102	8 1/8	206	4 1/4	108	340	57	26
6	150	6 1/4	159	11	279	6 3/8	162	850	150	68
8	200	8 1/8	206	13 3/4	349	8 3/8	213	1600	287	130
10	250	9 3/4	248	17	432	10 1/2	267	2600	463	210
12	300	12	305	20 3/8	518	12 5/16	313	4300	847	384
14	350	14	356	22 5/8	575	14	356	5500	1,213	550
16	400	15 1/8	384	25 1/8	638	15 3/4	400	7750	1,400	635

ANSI CLASS 2500

Installation Dimensions



DPV® Figure Number

W79

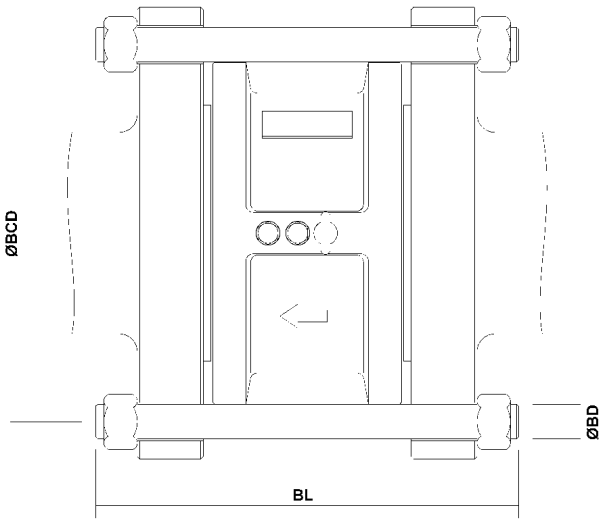
Body Material	Maximum Working Pressure	
WCB	6,170 psig	@ -20 to 100 °F
LCB	5,805 psig	@ -50 to 100 °F
LCC	6,250 psig	@ -50 to 100 °F
CF3	6,000 psig	@ -50 to 100 °F
CF3M	6,000 psig	@ -50 to 100 °F
CF8	6,000 psig	@ -50 to 100 °F
CF8M	6,000 psig	@ -50 to 100 °F
Duplex	6,250 psig	@ -50 to 100 °F

Spring Material	Maximum Working Temperature
UNS S31600	250 °F
UNS N06625	600 °F
UNS N07750	1,000 °F

Nominal Size		L Face-to-Face		ØD Outside Ø		ØD1 Outlet Inside Ø		Cv	Weight	
(in.)	(mm)	(in.)	(mm)	(in.)	(mm)	(in.)	(mm)		(lb.)	(kg.)
2	50	2 3/4	70	5 5/8	143	1 7/8	48	50	22	10
2 1/2	65	3 1/4	83	6 1/2	165	2 5/16	59	80	40	18
3	80	3 3/8	86	7 5/8	194	2 11/16	68	110	57	26
4	100	4 1/8	105	9 1/8	232	3 11/16	94	250	88	40
6	150	6 1/4	159	12 3/8	314	6 3/8	162	850	198	90
8	200	8 1/8	206	15 1/8	384	7 5/16	186	1300	331	150
10	250	10	254	18 5/8	473	9 1/8	232	2100	529	240
12	300	12	305	21 1/2	546	10 11/16	271	3250	970	440

INSTALLATION BOLTING DATA

Typical Construction



- Sizes 2" to 24" Connection Flanges shall conform to ASME B16.5
- Fully Threaded Stud Bolts shall be Used
- Heavy Series Hex Nuts shall be Used
- Spiral Wound Gaskets to ASME B16.20 with an approximate Compressed Thickness of 1/8" shall be Used
- Ring Type Joint Gaskets to ASME B16.20 with an approximate Distance between Flanges to ASME B16.5

Valve Size		Connection Flange				Bolting				
		ANSI Class	Facing	ØBCD		BL (Length)		Qty	ØBD	
(in.)	(mm)			(in.)	(mm)	(in.)	(mm)		(in.)	T.P.I.
2	50	150	1/16" R.F.	4 3/4	121	5 3/4	146	4	5/8	11
			R22 R.T.J.			6 1/4	159			
		300	1/16" R.F.	5	127	6	152	8	5/8	11
			R23 R.T.J.			6 3/4	171			
		600	1/4" R.F.	5	127	6 3/4	171	8	5/8	11
			R23 R.T.J.			7	178			
		900	1/4" R.F.	6 1/2	165	8 3/4	222	8	7/8	9
			R24 R.T.J.			9	229			
		1500	1/4" R.F.	6 1/2	165	8 3/4	222	8	7/8	9
			R24 R.T.J.			9	229			
		2500	1/4" R.F.	6 3/4	171	10	254	8	1	8
			R26 R.T.J.			10 1/4	260			
2 1/2	65	150	1/16" R.F.	5 1/2	140	6 1/4	159	4	5/8	11
			R25 R.T.J.			6 3/4	171			
		300	1/16" R.F.	5 7/8	149	6 3/4	171	8	3/4	10
			R26 R.T.J.			7 1/2	191			
		600	1/4" R.F.	5 7/8	149	7 1/2	191	8	3/4	10
			R26 R.T.J.			7 3/4	197			
		900	1/4" R.F.	7 1/2	191	9 3/4	248	8	1	8
			R27 R.T.J.			10	254			

INSTALLATION BOLTING DATA

Valve Size		Connection Flange				Bolting				
		ANSI	Facing	ØBCD		BL (Length)		Qty	ØBD	
(in.)	(mm)	Class		(in.)	(mm)	(in.)	(mm)		(in.)	T.P.I.
2 1/2	65	1500	1/4" R.F.	8	203	9 3/4	248	8	1 1/8	8
			R27 R.T.J.			10	254			
		2500	1/4" R.F.	9	229	11 1/4	286	8	1 1/4	8
			R28 R.T.J.			11 1/2	292			
3	80	150	1/16" R.F.	6	152	6 3/4	171	4	5/8	11
			R29 R.T.J.			7 1/4	184			
		300	1/16" R.F.	6 5/8	168	7 1/4	184	8	3/4	10
			R31 R.T.J.			8	203			
		600	1/4" R.F.	6 5/8	168	8	203	8	3/4	10
			R31 R.T.J.			8 1/4	210			
		900	1/4" R.F.	7 1/2	191	9 1/4	235	8	7/8	9
			R31 R.T.J.			9 1/2	241			
		1500	1/4" R.F.	8	203	10 1/2	267	8	1 1/8	8
			R35 R.T.J.			10 3/4	273			
		2500	1/4" R.F.	9	229	12 1/2	318	8	1 1/4	8
			R32 R.T.J.			12 3/4	324			
4	100	150	1/16" R.F.	7 1/2	191	6 3/4	171	8	5/8	11
			R36 R.T.J.			7 1/4	184			
		300	1/16" R.F.	7 7/8	200	7 1/2	191	8	3/4	10
			R37 R.T.J.			8 1/4	210			
		600	1/4" R.F.	8 1/2	216	9 1/4	235	8	7/8	9
			R37 R.T.J.			9 1/2	241			
		900	1/4" R.F.	9 1/4	235	11	279	8	1 1/8	8
			R37 R.T.J.			11 1/4	286			
		1500	1/4" R.F.	9 1/2	241	12	305	8	1 1/4	8
			R37 R.T.J.			12 1/4	311			
		2500	1/4" R.F.	10 3/4	273	14 1/2	368	8	1 1/2	8
			R38 R.T.J.			14 3/4	375			
6	150	150	1/16" R.F.	9 1/2	241	8	203	8	3/4	10
			R43 R.T.J.			8 1/2	216			
		300	1/16" R.F.	10 5/8	270	9	229	12	1	8
			R45 R.T.J.			9 3/4	248			
		600	1/4" R.F.	11 1/2	292	12 1/2	318	12	1 1/8	8
			R45 R.T.J.			12 3/4	324			
		900	1/4" R.F.	12 1/2	318	14 1/4	362	12	1 3/8	8
			R45 R.T.J.			14 1/2	368			

INSTALLATION BOLTING DATA

Valve Size		Connection Flange				Bolting				
		ANSI	Facing	ØBCD		BL (Length)		Qty	ØBD	
(in.)	(mm)	Class		(in.)	(mm)	(in.)	(mm)		(in.)	T.P.I.
6	150	1500	1/4" R.F.	12 1/2	318	16 3/4	425	12	1 3/8	8
			R46 R.T.J.			17	432			
		2500	1/4" R.F.	14 1/2	368	20	508	8	2	8
			R47 R.T.J.			20 1/2	521			
8	200	150	1/16" R.F.	11 3/4	298	9 1/2	241	8	3/4	10
			R48 R.T.J.			10	254			
		300	1/16" R.F.	13	330	10 3/4	273	12	7/8	9
			R49 R.T.J.			11 1/2	292			
		600	1/4" R.F.	13 3/4	349	14 1/2	368	12	1 1/8	8
			R49 R.T.J.			14 3/4	375			
		900	1/4" R.F.	15 1/2	394	17 1/4	438	12	1 3/8	8
			R49 R.T.J.			17 1/4	438			
		1500	1/4" R.F.	15 1/2	394	20 1/4	514	12	1 5/8	8
			R50 R.T.J.			20 1/4	514			
		2500	1/4" R.F.	17 1/4	438	23 1/2	597	12	2	8
			R51 R.T.J.			24 1/4	616			
10	250	150	1/16" R.F.	14 1/4	362	10 3/4	273	12	7/8	9
			R52 R.T.J.			11	279			
		300	1/16" R.F.	15 1/4	387	12 1/4	311	16	1	8
			R53 R.T.J.			13	330			
		600	1/4" R.F.	17	432	17 1/4	438	16	1 1/4	8
			R53 R.T.J.			17 1/2	445			
		900	1/4" R.F.	18 1/2	470	19	483	16	1 3/8	8
			R53 R.T.J.			19 1/4	489			
		1500	1/4" R.F.	19	483	23 1/4	591	12	1 7/8	8
			R54 R.T.J.			23 3/4	603			
		2500	1/4" R.F.	21 1/4	540	29 1/4	743	12	2 1/2	8
			R55 R.T.J.			30 1/2	775			
12	300	150	1/16" R.F.	17	432	12 1/4	311	12	7/8	9
			R56 R.T.J.			12 1/2	318			
		300	1/16" R.F.	17 3/4	451	14 1/4	362	16	1 1/8	8
			R57 R.T.J.			15	381			
		600	1/4" R.F.	19 1/4	489	18	457	20	1 1/4	8
			R57 R.T.J.			18 1/4	464			
		900	1/4" R.F.	21	533	21 3/4	552	20	1 3/8	8
			R57 R.T.J.			22	559			

INSTALLATION BOLTING DATA

Valve Size		Connection Flange				Bolting				
		ANSI	Facing	ØBCD		BL (Length)		Qty	ØBD	
(in.)	(mm)	Class		(in.)	(mm)	(in.)	(mm)		(in.)	T.P.I.
12	300	1500	1/4" R.F.	22 1/2	572	27	686	16	2	8
			R58 R.T.J.			27 3/4	705			
		2500	1/4" R.F.	24 3/8	619	33 1/4	845	12	2 3/4	8
			R60 R.T.J.			24 1/2	622			
14	350	150	1/16" R.F.	18 3/4	476	12 3/4	324	12	1	8
			R59 R.T.J.			13 1/4	337			
		300	1/16" R.F.	20 1/4	514	16	406	20	1 1/8	8
			R61 R.T.J.			16 3/4	425			
		600	1/4" R.F.	20 3/4	527	20 1/4	514	20	1 3/8	8
			R61 R.T.J.			20 1/2	521			
		900	1/4" R.F.	22	559	25	635	20	1 1/2	8
			R62 R.T.J.			25 1/2	648			
		1500	1/4" R.F.	25	635	30 1/4	768	16	2 1/4	8
			R63 R.T.J.			30 1/4	768			
16	400	150	1/16" R.F.	21 1/4	540	13 1/4	337	16	1	8
			R64 R.T.J.			13 1/2	343			
		300	1/16" R.F.	22 1/2	572	17	432	20	1 1/4	8
			R65 R.T.J.			17 1/2	445			
		600	1/4" R.F.	23 3/4	603	22 1/4	565	20	1 1/2	8
			R65 R.T.J.			22 1/2	572			
		900	1/4" R.F.	24 1/4	616	27	686	20	1 5/8	8
			R66 R.T.J.			27 1/4	692			
		1500	1/4" R.F.	27 3/4	705	33	838	16	2 1/2	8
			R67 R.T.J.			34 1/4	870			
18	450	150	1/16" R.F.	22 3/4	578	14 1/4	362	16	1 1/8	8
			R68 R.T.J.			14 1/2	368			
		300	1/16" R.F.	24 3/4	629	18 1/2	470	24	1 1/4	8
			R69 R.T.J.			19	483			
		600	1/4" R.F.	25 3/4	654	25 1/2	648	20	1 5/8	8
			R69 R.T.J.			25 3/4	654			
		900	1/4" R.F.	27	686	30 3/4	781	20	1 7/8	8
			R70 R.T.J.			31 1/2	800			
		1500	1/4" R.F.	30 1/2	775	38	965	16	2 3/4	8
			R71 R.T.J.			39 1/4	997			

INSTALLATION BOLTING DATA

Valve Size		Connection Flange				Bolting				
		ANSI	Facing	ØBCD		BL (Length)		Qty	ØBD	
(in.)	(mm)	Class		(in.)	(mm)	(in.)	(mm)		(in.)	T.P.I.
20	500	150	1/16" R.F.	25	635	15	381	20	1 1/8	8
			R72 R.T.J.			15 1/2	394			
		300	1/16" R.F.	27	686	19 3/4	502	24	1 1/4	8
			R73 R.T.J.			20 1/2	521			
		600	1/4" R.F.	28 1/2	724	26 1/4	667	24	1 5/8	8
			R73 R.T.J.			26 3/4	679			
		900	1/4" R.F.	29 1/2	749	31 1/2	800	20	2	8
			R74 R.T.J.			32 1/4	819			
		1500	1/4" R.F.	32 3/4	832	42 1/4	1,073	16	3	8
			R75 R.T.J.			43 3/4	1,111			
24	600	150	1/16" R.F.	29 1/2	749	15 3/4	400	20	1 1/4	8
			R76 R.T.J.			16 1/4	413			
		300	1/16" R.F.	32	813	21 3/4	552	24	1 1/2	8
			R77 R.T.J.			22 3/4	578			
		600	1/4" R.F.	33	838	30 1/4	768	24	1 7/8	8
			R77 R.T.J.			30 3/4	781			
		900	1/4" R.F.	35 1/2	902	36 3/4	933	20	2 1/2	8
			R78 R.T.J.			37 3/4	959			
		1500	1/4" R.F.	39	991	46 1/4	1,175	16	3 1/2	8
			R79 R.T.J.			48	1,219			

STANDARD TERMS AND CONDITIONS OF SALE

CONTROLLING PROVISIONS AND ACCEPTANCE

All DPV sales are expressly subject to these terms and conditions, which govern and prevail regardless of any terms and conditions set forth to the contrary by the Buyer. The Buyer's acceptance of these terms and conditions is evidenced by the Buyer's placement of order with DPV.

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Delivery quoted is estimated based on availability of DPV's stock and/or production schedule at time of quotation/order, and is subject to changes in the event of prior sales and re-scheduling to any occurences beyond the DPV 's control, though DPV, as a gesture of goodwill, will do its best stay as close as possible to the delivery estimated. Title to the product(s) and risk of loss shall pass to the Buyer upon delivery to a common carrier or Buyer's transport. All claims of loss to the materials in transit shall be filed by the Buyer directly with the carrier. All claims for shortages, corrections or deductions must be made to DPV within ten (10) days after receipt of goods.

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The abbreviaiton "DPV" referes to Delta Pacific Valve Mfg. Co., and the word "Buyer" refers to the Person, Party or Company purchasing goods and/or services from Delta Pacific Valve Mfg. Co. (DPV).

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